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AGRICULTURAL LIBRARIES INFORMATION NOTES

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TROPICAL SOILS DATA BASE, AN ADJUNCT FILE OF AGRICOLA

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The National Agricultural Library (NAL) is currently preparing a bibliographic file to AGRICOLA based on the almost 20,000 citations appearing in Arnold C. Orvedal's *Bibliography of the Soils of the Tropics*, a five-volume work now nearing completion. The citations run from 1920 on with a preponderance from 1950 to the present.

This adjunct file is the result of agreements among the NAL, the USDA Soil Conservation Service (SCS) and the Agency for International Development (AID) to share the costs of making the *Bibliography*... machine-readable and thus accessible online. The decision to computerize the bibliography was made on the basis of the potential for machine searching of a large bibliographic record not now available, the capability of utilizing a machine tape in tropical areas on local computer equipment, and establishing the file in a manner which will allow for easy future additions and better searching capabilities than the printed versions.

The *Bibliography of the Soils of the Tropics* is published as Technical Series Bulletin No. 17 of the Office of Agriculture, Bureau for Science and Technology, U.S. Agency for International Development. The four volumes published to date are subtitled as follows:

- Volume 1. *Tropics in General and Africa*. 228 p., published June 1975. PNAAB703. (Fiche: \$3.24)
- Volume 2. *Tropics in General and South America*. 248 p., published July 1977. PNAAD717. (Fiche: \$3.24)
- Volume 3. *Tropics in General, Middle America and West Indies*. 185 p., published June 1978. PNAAJ553. (Fiche: \$2.16)
- Volume 4. *Tropics in General, and Islands of Pacific and Indian Oceans*. 163 p., published February 1980. PNAAH933. (Fiche: \$2.16)
- Volume 5. *Tropics in General, and Tropical Mainland Asia* (in preparation).

Volumes 1-4 are now out-of-print. Fiche can be ordered from AID-Documentation and Information Facilities, Customer Services, 7222 47th Street, Chevy Chase, Maryland 20815; telephone (301) 657-9319.

Please cite publication number (PN) and number of pages for each volume requested.

The following statement appears prominently on the title page of volume 1:

"The Agronomy Department of Cornell University arranged for, and monitored, the preparation of this bibliography. In this capacity it represented the Consortium on Soils of the Tropics made up of the following: Cornell University, North Carolina State University, Prairie View A&M University (Texas), University of Hawaii, and the University of Puerto Rico. The work was supported by U.S. Agency for International Development through the Institutional Grants Program."

Although the consortium is no longer in existence as a formal entity, this statement is quoted to give some idea of the background of the original publication.

Citations in the *Bibliography* were extracted from the collection of bibliographic cards on file in the office of the soil staff of the Soil Conservation Service and supplemented by searching the collections of the National Agricultural Library. Collection of citations has been underway since 1945. These citations in the SCS file are mainly about soils outside the United States and contribute, collectively, to the knowledge about the geography of soils--their distribution, characteristics, classification, environment, and use. Citations to works on geology, geomorphology, landforms, vegetation, climate and land use that contribute to the knowledge about soils of an area and aid in the prediction of kinds of soils are included. The *Bibliography*, however, does not cover equally all aspects of soils science. Citations about fertilizer technology, soil chemistry, soil physics, soil microbiology, etc., generally are not included unless they also have some relevance to soil geography.

Each volume is as current as it was possible to make it; some updating of earlier volumes appears in later ones.

The items in the *Bibliography* have been keyed in the MARC format and will be alternately available in NAL's recently announced alternate format for AGRICOLA tape, upon conversion at NAL.

The data elements used by the author in his printed bibliography are typical of standard bibliographical style and have been coded or "tagged" appropriately, with few exceptions, for the NAL adjunct file.


Many citations have annotations which augment the information in the titles. These annotations are used mainly to provide information about maps, a kind of information rarely included in other bibliographies. Map scales and titles, or sometimes subject matter instead of titles, are given for references that contain maps if such information could be ascertained by the compiler.

NAL call numbers have been added to over half of the citations. By arrangement with the Mann Library at Cornell University and the University of Hawaii libraries, two centers with collections of excellence in African/Chinese and Pacific/Oceanic materials, respectively, backup call numbers are being added to volumes 1, 4, and 5 on materials in their collections for which NAL call numbers are unavailable. In addition the Office de la recherche scientifique et technique outre mer (ORSTOM) in Paris provides microfiche upon request for any of its publications. Location or call numbers will be provided for 85% of the citations.

The Tropical Soils tape was keyed by Electronic Keyboarding, Inc., Maryland Heights, Missouri.

The tape described here will be only one of several planned by the NAL as future adjunct files on similar subjects. The Library has signed an agreement with the Land Tenure Center at the University of Wisconsin to obtain machine-readable bibliographic coverage of the important work in this area, much of it covering the same third-world nations so heavily featured in the *Tropical Soils Bibliography*. Similar bibliographic cooperation with other literature centers is also under active consideration in the area of arid lands or dryland farming. Based on an agreement with the University of Hawaii, the *Tropical Soils Bibliography* is also undergoing systematic comparison with R.J. Morrison's recently published *Bibliography of Soils Information from the South Pacific* (Suva, Fiji, Pacific Information Center and Institute of Natural Resources, 1982 (*PIC Selected Bibliography No. 1*), reprinted from *Proceedings of the South Pacific Regional Forum on Soil Taxonomy, Suva, Fiji, 2-3 November 1981*. Appendix 4, p. 383-445).

It is anticipated that the file will be made available to those who purchase or can utilize the AGRICOLA tapes such as online vendors. The file will not be merged as part of the AGRICOLA file, but attempts are underway to have it placed as an adjunct or add-on to which searchers would be alerted and capable of searching alone or with AGRICOLA if they so desired. Duplication with the AGRICOLA file from 1970 onward is under 45%.

The AGRICOLA tape alternate format was developed in response to the knowledge that some tape users would benefit from a simplified format. The alternate format will be in EBCDIC (Extended Binary Coded Decimal Interchange Code), with upper and lower case characters. Special characters are translated from the full Library of Congress character set, with most special characters translated to mnemonics, and diacritics discarded. Data elements are tagged with three-character alphabetic tags. The tape will be written at a density of either 1600 or 6250 bytes per inch, with a logical record length of 80 bytes, a block size of 3200 bytes, and fixed-length block record format. For more information regarding this and other automated systems products, contact the Chief, Information Systems Division, National Agricultural Library, Beltsville, MD 20705; telephone (301) 344-3813. 



DIRECTOR'S COLUMN

Eight and a half years ago when I came on board at NAL, 1983 seemed very far away. But suddenly it is about to arrive. In mid-January I will become a golden ager. I find myself the most senior among my USDA administrator colleagues. I have worked under four different Presidents and Secretaries of Agriculture. A week in a hospital bed this summer gave me time to think and to realize the time had come to hang it up; to get out of the fast lane and to attempt a new lease on life.

These have been challenging years at NAL. We seem to have been in a continuous reorganization. Our modest budget increases have kept us just ahead of cost increases. The lowering personnel ceilings have been the greatest threat to our well-being. The Federal bureaucracy does not respond easily to retrenchment. One does not send in fresh troops to fill a hole in the line – not until each job description is rewritten. A bright spot in this picture has been the admirable work of the Blue Ribbon Panel. Its report has caught the attention of USDA policy officers and the prospect of additional resources for the NAL seems very good.

A personally rewarding condition has been our good cooperative relations with those of you in the land-grant agricultural libraries. Even those who were our severe critics have done that in a kindly manner. Throughout these years we have had a truly dedicated core of staff members at NAL. I will miss all of you. I leave with the knowledge that the NAL and agricultural libraries are in good hands. My very best wishes go to each of you. I thank you for making my career exciting and challenging.

Richard A. Farley
Director

ACTING DIRECTOR APPOINTED FOR NATIONAL AGRICULTURAL LIBRARY


Joseph H. Howard has been appointed acting director of the U.S. Department of Agriculture's National Agricultural Library to replace Richard A. Farley, who retired.

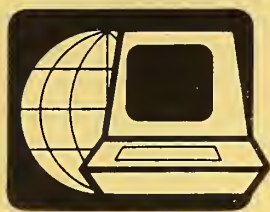
Orville G. Bentley, USDA assistant secretary for science and education, announced the temporary appointment and said the search for a permanent director has begun.

Howard has been assistant director of processing services at the Library of Congress since March 31, 1975. He will assume his new duties part-time this month.

Until he takes over his new post full-time in January, Howard will work with both libraries and will maintain working relationships with both for the duration of the temporary service.

A native of Olustee, Oklahoma, Howard received a bachelor's degree from the University of Oklahoma in 1952. After serving with the U.S. Army for 2 years and teaching from 1954 to 1956 in Kiowa, Kansas public schools, he returned to the University of Oklahoma, where he received a master's degree in library science in 1957.

In 1967, he joined the Library of Congress staff as assistant chief of the descriptive cataloging division and was promoted to chief of that division in 1968. In 1972, he was appointed chief of the serial records division, and in 1975, he became assistant director of processing services. 



AGRICOLA

SEARCHING ADULT EXTENSION RECORDS ON DIALOG

With the December 1980 sale tape, NAL began adding Adult Extension material (not necessarily owned by NAL) citations to its AGRICOLA database. Data entry for these citations is performed at Iowa State University and the resulting data is forwarded to NAL in machine readable form. Although NAL tags these records as "ADU" in MARC field @910, subfield a on its sale tape, Dialog loads the records in its "SF" index. This creates a problem for searchers wishing to retrieve only the the Adult Extension materials. To overcome this difficulty, NAL has added to the Dialog system a shared saved search which will retrieve these records. This saved search generates relatively exhaustive and precise retrieval of ADU records (and requires about 5 minutes to execute). The search-save number is 61TL/USER8027. The searcher need only key: .EX STEPS 61TL/USER8027 as the first step of a search session (i.e. as step 1). The resulting set 5 may then be "anded" with any desired subject set. Users who are not especially concerned with limiting their retrieval to only ADU materials might wish to "and" their subject sets with a simple "SF-EXT". This will retrieve all of the ADU materials as well as other extension materials actually held by NAL. This technique is considerably simpler and quicker than executing the saved search. Out of 10,252 Extension citations in file 10 (through UD=8210), 2345 are actually ADU records.

EVALUATION AND ASSESSMENT OF AGRICOLA AND AGROVOC

Funds were made available in early October to begin moving toward the

goals set forth by the NAL Blue Ribbon Panel. In response to the high priority placed on improving the Library database, NAL has arranged for contractual assistance in two related areas: An AGRICOLA Systems Study and an AGROVOC Evaluation. The Mitre Corporation of McLean, Virginia, has been awarded the AGRICOLA Systems Study, and the MAXIMA Corporation of Bethesda, Maryland, has been retained for the AGROVOC Evaluation.

A contract has been let to the Mitre Corporation to perform a thorough technical evaluation of AGRICOLA. The major output of their work will be a high-level functional requirements specification developed in conformance with FIPS Pub 38. Following acceptance of this report, Mitre will produce a detailed system design and implementation strategy. Mitre is currently studying a set of documents on AGRICOLA. Their next step will be to interview designated NAL personnel as well as external people who are involved with AGRICOLA.

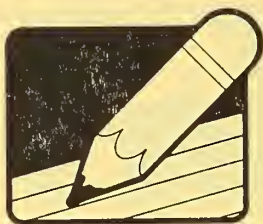
As part of the AGROVOC Evaluation, MAXIMA has requested permission to interview several NAL staff members and others outside NAL who are knowledgeable about AGROVOC and its potential value as an index for AGRICOLA.

AGRICOLA HEDGES

Information Systems Division (ISD) of the National Agricultural Library has announced an updated list of the Search Saves it maintains on the DIALOG system for use in the AGRICOLA (Files 10, 110) database. These saved searches cover a wide variety of topics including soils, plants and crops, pests, birds and animals, nutrition, etc. Many of them can be used either as a complete concept or as a hedge to combine with other terminology from your own search.

The new Search Save list includes the number of descriptors retrieved on each statement. Copies are available on request from:

-Joseph R. Judy, Chief
Information Systems Division
(301-344-3813)



NAL PROJECTS AND POLICIES

OATS TESTED BY NAL

The Original Article Tear Sheet Service (OATS) is a service of the Institute for Scientific Information (ISI). It is a document delivery extension of *Current Contents* published by ISI. Any article listed in a *Current Contents* is available from ISI. The National Agricultural Library (NAL) entered a trial agreement with ISI to test field use of OATS in six states as an alternative to library photocopy delivery. Through OATS, USDA field scientists got the full texts of articles they requested from the 6700 journals covered by ISI services. These scientists sent OATS order cards directly to ISI which, in turn, billed NAL. NAL asked clients if they're satisfied with OATS. A survey done between September 27 and October 8 indicated 27% of the respondents were willing to pay for the service. The most important perceived advantage is the speed of service. No major disadvantages were perceived.

The contract with ISI enabled NAL to investigate ways to comply with a federal mandate to use private sector resources whenever possible. The test generated about 100 OATS orders a day.

-Wallace C. Olsen, Chief
Field & Special Programs
(301-344-3834)

ONLINE ORDERING OF ITEMS CITED BY *CHEMICAL ABSTRACTS*

Chemical Abstracts (CA) Service has provided online ordering for items cited in the *CA* database for some time. This year it became feasible for NAL to take advantage of this document delivery service and order online because *CA* will now bill customers and no longer requires deposit accounts.

Regulations made it impossible for NAL to have a deposit account in the past. Ordering can be done via the OCLC ILL subsystem. Ordering online began September 6, 1982.

As of October 29, 92 out of 102 requests were filled. Sixty-one requests were filled with photocopy, 31 by loans. *CA* lends articles for which copyright arrangements have not been made with the publishers. Monographs and separates are also sent on loan.

Of the items that were received, 30% were for articles appearing in proceedings of conferences or symposia. In all cases, no USDA library had reported owning the titles. Of the remaining items obtained, 51% were for titles published in other countries; again titles that are often difficult to locate. Therefore, of the 92 items obtained, 81% were for titles that would have been difficult and time consuming to locate and obtain from sources other than *CA*.

In the case of the unfilled requests, several were "missing", several were bibliographic citations which *CA* had copied from a secondary source and therefore did not own the item, and several were for items older than the dates filled by *CA*.

Several of the advantages of this document delivery service are obvious:

1. Saves staff time in verifying titles and locating institutions owning the titles.
2. Saves patron time.
 - a. No delay while staff verifies.
 - b. No time delay while requests are sent overseas to BLL or other national institutions owning titles as was done in the past.
 - c. There is no delay due to mailing requests to *CA*.
 - d. *CA* fills requests rapidly.

Other advantages are less obvious. One is that there is a slight saving of staff time since ALA forms do not have to be reviewed or mailed nor do file copies have to be filed alphabetically or pulled from the file when articles are received.

Additional time is saved since there is no need to keep copyright records for the majority of these articles. CA has copyright agreements with many publishers and handles all fees, etc. for the covered titles.

The only disadvantage to the service is the cost which is a minimum of \$12.00 per item. This is more than the approximated average of \$7.00 per item which NAL paid in FY 82. However, this cost is quite acceptable considering the staff savings; the fact that CA pays copyright fees, thus saving our costs; and also that more libraries are increasing their minimum fees to \$10.00.

-Jennie Brogdon, Head
Utilization Section
(301-344-3717)



AERO - AGRICULTURAL ECONOMICS REFERENCE ORGANIZATION

AERO is an organization of agricultural economics reference rooms, libraries, information centers, etc. at universities in the United States and Canada.




Any information center serving agricultural economists as its primary clientele is eligible to join AERO. An information center need not be university-affiliated to belong to AERO. Membership is free.

The main services of AERO are:

1. A newsletter sent to all members, quarterly, at least to start.
2. Exchange of reference questions, problems, resources. AERO will serve to facilitate communication among information workers in agricultural economics. Do you know of a unique information source in your area that others should know about? Let AERO tell them. Do you need a piece of data that you just can't find anywhere? Ask AERO members for help.

3. Communication with information providers, especially USDA. There has been a great outcry about USDA's new publications distribution (or non-distribution) policy. Individual voices may not be heard, but we hope that AERO's voice will be.
4. Possible online information retrieval workshops or other meetings.

To join AERO contact Judith A. Seiss, Agricultural Economics Reference Room, 305 Mumford Hall, 1301 W. Gregory Drive, Urbana, IL 61801. Telephone: (217) 333-2073.

The USDA/Economic Research Service Information Center is a charter member of AERO.   

STANDING NAL LIAISON COMMITTEE

The National Association of the State Universities and Land-Grant Colleges held its 96th annual meeting November 7-9 in St. Louis, Missouri. At the Division of Agriculture business meeting, Tuesday afternoon, November 9 Dean D.L. Padberg, University of Massachusetts moved that the Division of Agriculture appoint a standing National Agriculture Library Liaison Committee. The text of the motion is:

1. The Committee will consist of six members including representation of agricultural teaching, research, and extension. Members will have two year terms. The chairman will represent NASULGC on the NAL Advisory Council.
2. The Committee will keep the Division of Agriculture informed concerning developments at NAL. It will also carry Division of Agriculture concerns to NAL leadership.

The motion was passed by voice vote with Dean Call, Cornell University, chairing the Division meeting.

-Wallace C. Olsen, Chief
Field & Special Programs
(301-344-3834)



NEW BIBLIOGRAPHIES

Agricultural Economics 1981 Publications. E.H. Gussing. Urbana, IL, University of Illinois, Department of Agricultural Economics, January 1982. 16 p. Free (supply limited). Order from Publisher. (NAL call no.: 275.29 IL62P).

Bibliography of Cooperative Extension Service Literature on Wildlife, Fish, and Forest Resources. Robert L. Ruff. Madison, WI, Department of Wildlife Ecology, Cooperative Extension Programs, University of Wisconsin, 1982. 42 p. Free (supply limited). Order from Publisher. (NAL call no.: AZ7164.N3B5).

Biomass Aogradation of Lignocellulose for Fuel Production (1972-March 82): (Citations from the Institute of Paper Chemistry Data Base). Springfield, VA, National Technical Information Service, 1982. 92 leaves. Order from NTIS, 5285 Port Royal Road, Springfield, VA 22161. (703) 487-4780. (NAL call no.: Z5354.C5B5).

Leucaena Bibliography. A.J. Oakes. Beltsville, MD, Economic Botany Laboratory, U.S. Department of Agriculture, 1982. 171 leaves; 1308 citations. Price unavailable. Order from author, Agricultural Research Service, USDA, Room 338, Building 001, Beltsville, MD 20705.

Management and Improvement of Saskatchewan Rangeland: A Selected Bibliography. Z. Abdouguendia, J. Harraldson, and J. Valby. Saskatchewan, The Council, 1981. 80 leaves; 534 citations. (SRC Technical Report/Saskatchewan Research Council No. 112). Price unavailable. Order from Saskatchewan Research Council, 30 Campus Drive, Saskatoon, Saskatchewan Canada S7N 0X1. (NAL call no.: Z5074.R27A2).



QUICK BIBLIOGRAPHIES

The bibliographies in this series are primarily computerized online or batch bibliographies emanating from searches performed by the NAL Reference Staff in response to customer requests.

Searches are selected for inclusion based on the currency of the topic, interest among clientele, relative length and probable value to a larger audience. All titles in this series will be listed for six months. Revisions or updates will be renumbered and reannounced. Only one copy of a title will be sent; however, requestors may make copies. To request a copy of a Quick Bibliography send the title, series number, and a return addressed label to:

Reference Branch, Room 111
National Agricultural Library
Beltsville, MD 20705

NAL--Q.B.--82-15. *Irrigation Scheduling and Modelling, 1979-1981.* 154 citations from AGRICOLA. Searched by Jayne T. MacLean. June 1982. Supersedes 80-05.

NAL--Q.B.--82-16. *Gypsy Moth: Biological Control, 1970-1981.* 274 citations from AGRICOLA. Searched by Jayne T. MacLean. June 1982.

NAL--Q.B.--82-17. *The Imported Fire Ant, 1970-1982.* 274 citations from AGRICOLA. Searched by Jayne T. MacLean. June 1982.

NAL--Q.B.--82-18. *The 1980's Outlook for U.S. and Global Agricultural Production.* 222 citations from AGRICOLA. Searched by Mary E. Lassanyi. July 1982.

NAL--Q.B.--82-19. *Minimum/Zero/Conservation Tillage, January 1979-May 1982.* 270 citations from AGRICOLA. Searched by Jayne T. MacLean. July 1982.

NAL--Q.B.--82-20. *Remote Sensing: Applications for Agriculture, 1978-May 1982.* 250 citations from AGRICOLA. Searched by Maria Pisa. July 1982.

NAL--Q.B.--82-21. *Computer Assisted Instruction for Agriculture, 1970-1982.* 154 citations from AGRICOLA. Searched by Maria Pisa. August 1982.

- NAL--Q.B.--82-22. *Organic Farming and Gardening - Revision 1970-1982*. 300 citations from AGRICOLA. Searched by Jayne T. MacLean. September 1982. Supersedes 80-27.
- NAL--Q.B.--82-23. *Wood Preservation: Wood Preservatives, 1979-June 1982*. 139 citations from AGRICOLA. Searched by Henry Gilbert. September 1982.
- NAL--Q.B.--82-24. *Allelopathy: The Harmful Effects of Chemicals Produced by One Plant Upon Another, 1979-June 1982*. 131 citations from AGRICOLA. Searched by Henry Gilbert. September 1982. Updates 81-06.
- NAL--Q.B.--82-25. *Jojoba, 1979-June 1982*. 100 citations from AGRICOLA. Searched by Henry Gilbert. September 1982. Updates 80-30.
- NAL--Q.B.--82-26. *Pesticide Handbooks and Manuals, 1979-1982*. 35 citations from AGRICOLA. Searched by William Longenecker. September 1982. Revision of 80-08.
- NAL--Q.B.--82-27. *Agricultural Trade: The United States and Japan, 1970-1982*. 162 citations from AGRICOLA. Searched by Maria Pisa. September 1982.
- NAL--Q.B.--82-28. *World Grain Trade: Implications for the Future, 1970-1982*. 236 citations from AGRICOLA. Searched by Mary E. Lassanyi. September 1982.
- NAL--Q.B.--82-29. *Double Cropping and Interplanting in the Temperate Zone, A Selected Bibliography, July 1980-June 1982*. 57 citations from AGRICOLA. Searched by Jayne T. MacLean. September 1982.
- NAL--Q.B.--82-30. *Social, Structural, and Technological Changes in Agriculture, 1975-August 1982*. 206 citations from AGRICOLA. Searched by Mary E. Lassanyi. September 1982.
- NAL--Q.B.--82-31. *Aviation in Agriculture, 1979-1982*. 268 citations from AGRICOLA. Searched by Sheldon Cheney. September 1982.
- NAL--Q.B.--82-32. *Carcinogens and Toxins in Cooked and Smoked Meats, 1970-1982*. 40 citations from AGRICOLA. Searched by Sheldon Cheney. September 1982.
- NAL--Q.B.--82-33. *Mechanically Deboned Meat, 1970-1982*. 203 citations from AGRICOLA. Searched by Sheldon Cheney. September 1982.
- NAL--Q.B.--83-01. *Selected Nitrogen-Fixing Trees: Energy Considerations, 1970-1982*. 186 citations from AGRICOLA. Searched by Jayne T. MacLean. October 1982.
- NAL--Q.B.--83-02. *Poultry Wastes, 1975-1982*. 198 citations from AGRICOLA. Searched by Jayne T. MacLean. November 1982.
- NAL--Q.B.--83-03. *Agroforestry in the Third World, 1970-1982*. 70 citations from AGRICOLA. Searched by Jayne T. MacLean. November 1982.
- NAL--Q.B.--83-04. *The International Aspects of Food and Agriculture, 1970-1982*. 167 citations from AGRICOLA. Searched by A. Skamay-Meeks. November 1982.
- NAL--Q.B.--83-05. *Women's Role in Farming and Agriculture, 1970-August 1982*. 166 citations from AGRICOLA. Searched by A. Skamay-Meeks. November 1982.
- NAL--Q.B.--83-06. *Implications of Federal Government Regulation/Deregulation in Agricultural Policies, 1970-August 1982*. 179 citations from AGRICOLA. Searched by A. Skamay-Meeks. November 1982.





NEW PUBLICATIONS OF NOTE

Department of Agriculture Could Do More to Help Farmers Conserve Energy.

Report by the Comptroller General of the United States (Washington, D.C., General Accounting Office) 1982. 37 p. (GAO/EMD-82-30). Free. Order from U.S. General Accounting Office, Document Handling and Information Services Facility, P.O. Box 6015, Gaithersburg, MD 20760. Telephone (202) 275-6241.

Directory of Small Farms Technical Assistance in the United States.

Heather Tischbein Baker... (et al). Washington, D.C., National Rural Center, 1981. 131 p. \$7.00. Order from Publisher, 1828 L Street N.W., Washington, D.C. Telephone (202) 331-0258.

Fertilization of Four Grasses

Established on Topsoiled and Nontopsoiled Mined Land. Oakland, CA, U.S. Department of Agriculture, Agricultural Research Service (Western Region) 1982. 45 p. (ARR-W-24/September 1982). Free. Order from the High Plains Grasslands Research Station, 8408 Hildreth Road, Cheyenne, WY 82009.

Forestry for Local Community

Development. FAO Forestry Department with the assistance of the Swedish International Development Authority. Rome, Food and Agriculture Organization of the United Nations, 1978. 114 p. (FAO Forestry Paper 7). \$13.70. Order from Unipub, Inc., P.O. Box 433, New York, NY 10032.

Forestry for Rural Communities. Food and Agriculture Organization of the United Nations. Forestry Department. London, Tony Loftas: Diagram Visual Information Ltd., 1978. 56 p. \$6.75. Order from Unipub, Inc., P.O. Box 433, New York, NY 10032.

International Directory of Animal Health and Disease Data Banks. Beltsville, MD, U.S. Department of Agriculture, National Agricultural Library, 1982. 93 p. (Miscellaneous Publication No. 1423). Free. To request copies send a self-addressed mailing label to Field & Special Programs Division, Room 300, National Agricultural Library, Beltsville, MD 20705.

International Directory of Forestry and Forest Products Libraries.

Helvi M. Bessenyei and Peter A. Evans. Berkeley, CA, Pacific Southwest Forest and Range Experiment Station, 1982. 91 p. Paper \$10.50; microfilm \$4.00. PB 83-102376. Order from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

The Mineralogy, Chemistry, and Physics of Tropical Soils with Variable Charge Clays.

Goro Uehara. Boulder, CO, Westview Press, 1981. 170 p. (Westview Tropical Agriculture Series, No. 4). \$20.00. Order from Publisher. ISBN: 0-89158-484-6.

New Technologies to Raise Agricultural Efficiencies.

Robert G. McElroy and Kenneth R. Krause. Washington, D.C., U.S. Department of Agriculture, Economic Research Service, 1982. 38 p. (Agricultural Information Bulletin No. 453). \$4.50 (price subject to change). Order from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Microfiche copies (\$4.00 each) can be ordered from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

The Politics of Agricultural Research. Don F. Hadwiger. Lincoln, University of Nebraska Press, 1982. \$67.80. Order from University of Nebraska Press, 901 North 17th Street, Lincoln, NB 68588.

Progress of Solar Technology and Potential

Farm Uses. Walter G. Heid, Jr. and Warren K. Trotter. Washington, D.C., U.S. Department of Agriculture, Economic Research Service, 1982. 112 p. (Agricultural Economic Report No. 489). \$5.00. Order from Superintendent of Documents, U.S. Government Printing Office,

Washington, D.C. 20402. Specify AER-489. (Price subject to change.) Microfiche copies at \$4.00 per report are available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. Specify title and stock number PB 83-100065.

Protein Contribution of Feedstuffs for Ruminants: Application to Feed Formulation. E.L. Miller and I.H. Pike in association with A.J.H. Van Es. London, Boston, Butterworth Scientific, 1982. 160 p. (Studies in the Agricultural and Food Sciences). \$39.95. Order from Butterworths, 10 Tower Office Park, Woburn, MA 01801. ISBN 0-408-11151-8.

The Quality of Agricultural Research Service Watershed and Plot Data. Oakland, CA, U.S. Department of Agriculture, Agricultural Research Service (Western Region), 1982. Free. Order from USDA/ARS, Northwest Watershed Research, Patti Plaza, Suite 116, 1175 South Orchard, Boise, ID 83705.

Remote Sensing for Resource Management. Chris J. Johannsen and James L. Sanders. Ankeny, IA, Soil Conservation Society of America, 1981. 665 p. \$45.00; \$40.00 for SCSA members, postpaid. Order from SCSA, 7515 Northeast Ankeny Road, Ankeny, IA 50021. (515) 289-2331.

Selected Agricultural Trade Statistics for the European Community, Greece, Spain, and Portugal, 1967-79. (Washington, D.C.). U.S. Department of Agriculture, Economic Research Service, 1982. 110 p. (Statistical Bulletin No. 692). Paper \$12.00; microfiche \$4.00. PB 83-101998. Order from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

Symposium on Information Transfer in Toxicology, September 16-17, 1981. Lister-Hill Center, National Library of Medicine, Bethesda, MD. \$12.00. Order from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

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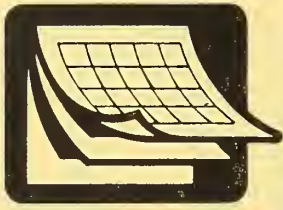
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AGRICULTURE DATEBOOK

December 13-14: *Fourth National Drainage Symposium*. Contact: Darrell W. DeBoer, Program Chairman, Department of Agricultural Engineering, South Dakota State University, Brookings, SD 57007. Tel: (605) 688-5141.

December 13-15: *Infrastructure of an Information Society*. Co-hosted by Egyptian Society for Information Technology and American Society for Information Science. Cairo, Egypt. Contact: Bahaa El-Hadidy, ESIT/ASIS Conference Co-Chairman, Graduate School of Library and Information Science, The Catholic University of America, Washington, D.C. 20064. Tel: (202) 635-5702 or 635-5085.

December 27-30: *Two Symposia: Crayfish Distribution Patterns and Factors Affecting Crustacean Growth*. Hyatt Regency Hotel, Louisville, KY. Contact: Patsy A. McLaughlin, Department of Biological Sciences, Florida International University, Miami, FL 33199 or Adrian M. Wenner, University of California, Santa Barbara, Marine Science Institute, Santa Barbara, CA 93016.

January 16-19: *Seventh Annual Larval Fish Conference and Semiannual Meeting of the AFS Early Life History Section*. Colorado State University. Contact: Darrell E. Snyder, Larval Fish Laboratory, Colorado State University, Fort Collins, CO 80523.

January 20-23: *The Private Sector and Higher Education: Partners for Development in the Western Hemisphere*. Cosponsored by the National Association of State Universities and Land-Grant Colleges (NASULGC) and the Consortium for International Cooperation in Higher Education. Port Everglades, FL, S.S. Universe.


February 9-11: *First International Biennial Conference on Warm Water Aquaculture*. Sponsored by Brigham Young University-Hawaii Campus. Contact: Warm Water Aquaculture Conference, Department of Tropical Agriculture, Box 135, BYU-Hawaii Campus, Laie, HI 96762 or call (808) 293-3443.


February 10-12: *Human Issues in Freedom from Hunger*. Seminar sponsored by Sam Houston State University. Keynote speaker will be Karen Smith, UNICEF consultant on community participation and family life. Contact: Dorothy A. Huskey, Sam Houston State University, P.O. Box 2065, Huntsville, TX 77341.

February 28-March 2: *10th Energy Technology Conference & Exposition*. Sheraton-Washington Hotel, Washington, D.C. Contact: ET'83, 966 Hungerford Drive #24, Rockville, MD 20850. Telephone (301) 251-9250.

May 8-13: *International Symposium on Tilapia in Aquaculture*. Tiberias, Israel. Contact: Organizing Committee, International Symposium on Tilapia in Aquaculture, P.O. Box 3054, Tel Aviv, 61030, Israel.

June 1-4: *Third Symposium on Coastal and Ocean Management*. COASTAL ZONE '83. Town and Country Inn, San Diego, CA. Contact: Coastal Zone '83, P.O. Box 26062, San Francisco, CA 94126.

August 31-September 9: *The Developing Library Workforce: The Library Association Second International Summer Workshop*. London, U.K. Contact: Short Courses Organizer, The Library Association, 7 Ridgmont Street, London WC1E 7AE, Great Britain. 

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